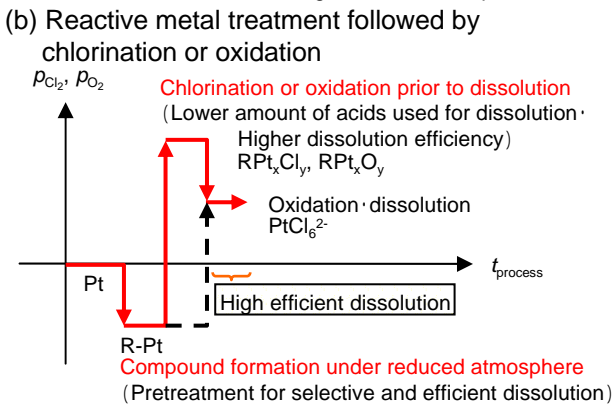
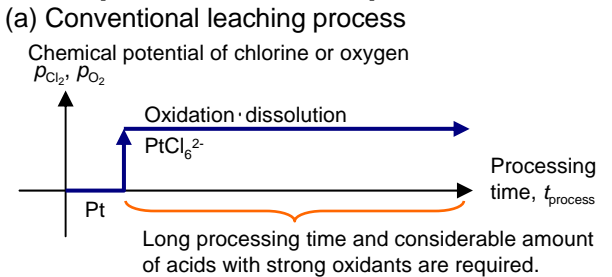


Efficient Recovery Process of Precious Metals

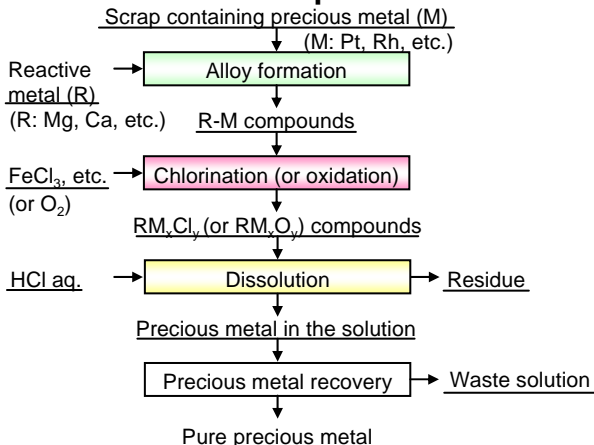
New Environmentally Sound Recovery Process of Precious Metals Using Reactive Metal and Chloride Vapor Treatment

New hydrometallurgical recovery process of precious metals

Comparison between conventional process and new process



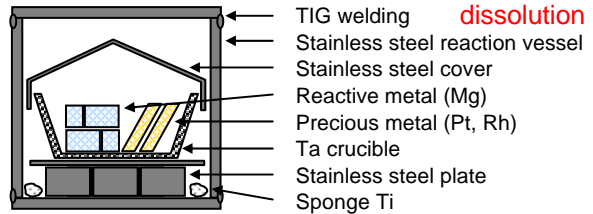
New recovery process for precious metals using reactive metal and chloride vapor treatment



Experimental procedure and results

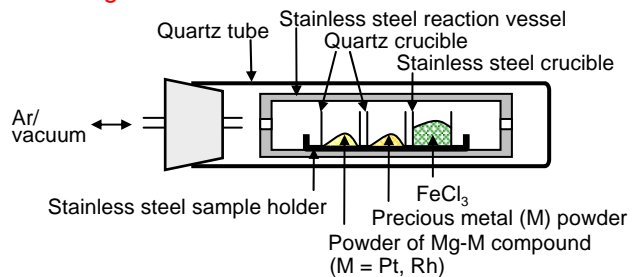
Synthesis of R-M compounds

Selective and high-speed dissolution

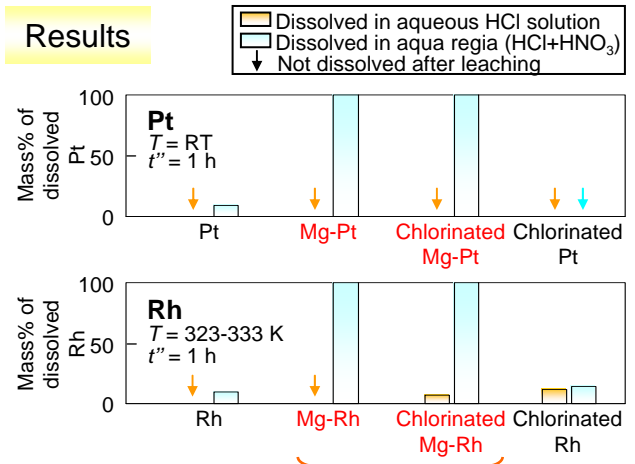


Chlorination of R-M compounds

Minimizing amount of toxic waste solution
Utilizing chloride wastes



Results



Dissolution efficiencies in aqua regia after alloy formation and chlorination were significantly enhanced.

Resource Recovery and Materials Process Engineering Laboratory